

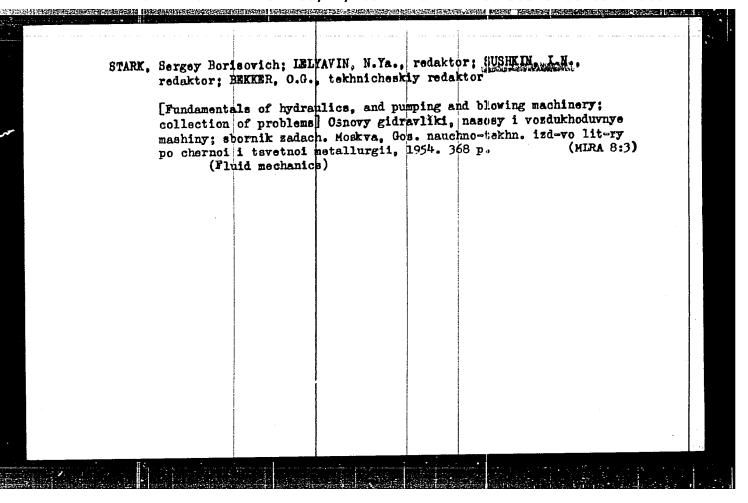
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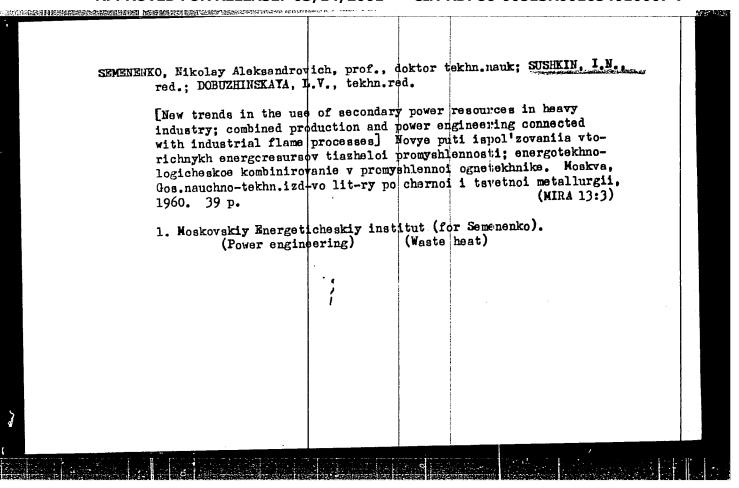


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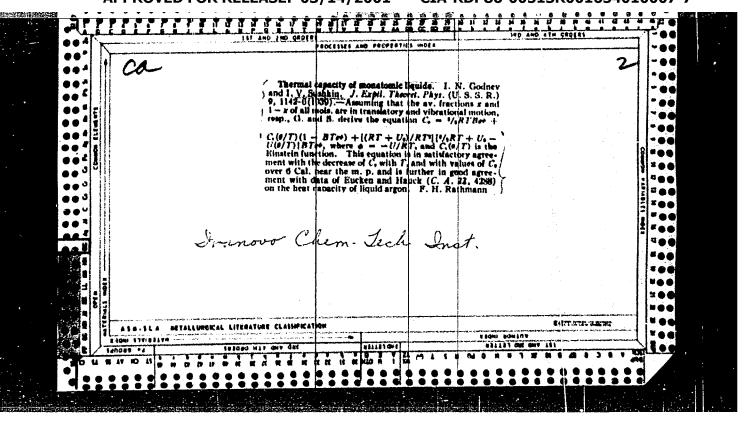
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Osnovy teplotekhniki; uchebnik dlya shkol i kursov medols and (Principles of Heat Engineering; Textbook for Schools and (Principles of Heat Engineering; Moscow, Metallurgizdat, 1958. 356 p.	
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Vaynshteyn.	
PURPOSE: This textbook is to be used in schools and training proves for foremen. It may also be used by workers studying to improve	
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COVERAGE: This book deals with the fundamentals of heat engineering. The engineering thermodynamics, and the theory of heat transfer. The engineering thermodynamics, and the theory of steam, gas laws, cycles engineering thermodynamics, properties of steam, gas laws, cycles are included.	
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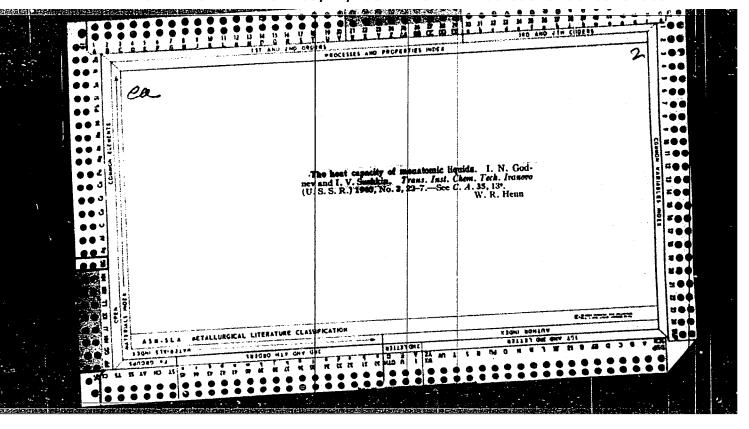


(Engineering--Nutation)

KALASHNIKOV, N.V.; STOTSKIY, L.R.; GLINER, B.M. [deceased]; DOBRYNINA, N.P.; DUBROVSKAYA, Kh.A.; YEZDAKOVA, M.L.; TYUBIMOV, N.G.; PO-NOMAREVA, K.A.; REYKHTSAUM, P.B.; SMIRNOV, V.I.; SUSHKIN, I.N.; SHAKHMAYEVA, Ye.A., vedushchiy red.; POLOSINA, A.S., tekhn. red. [Units of measurement and abreviations of physical and technical values; manual for editors and writers] Edinitsy izmereniia i oboznacheniia fiziko-tekhnicheskikh velichin; spravochnik dlia rabotnikov izdatel stv i avtorov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 254 p. (MIRA 14:9) 1. Gosudarstvennoye nauchno-tekhnicheskoye izdatelestvo neftyanoy i gorno-toplivncy promyshlennosti (for Kaleshnikov, Dobrynina, Smirnov). 2. Moskovskiy institut neftekhlmicheskoy i gazovoy promyshlennosti im. akad. hubkina, (for Stotskly). 3. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo Ministerstva promyshlennosti prodovol stvennykh tovarov (for Dubrovskaya). 4. Gosudarstvennoye nauchno-tekhnicheskoye izdatel stvo literatury po chernoy i tsvetnoy metallurgii (for Yezdakova, Sushkin). 5. Gosgortekhizdat (for Lyubimov). 6. Gosudarstvennove nauchno-tekhnicheskoye izdatel stvo mashinostroitel'noy literatury (for Ponomareva). 7. Gosudarstvennoye nauchmotekhnicheskoye izdatel'stvo khimicheskoy literatury (for Reykhtsaum).

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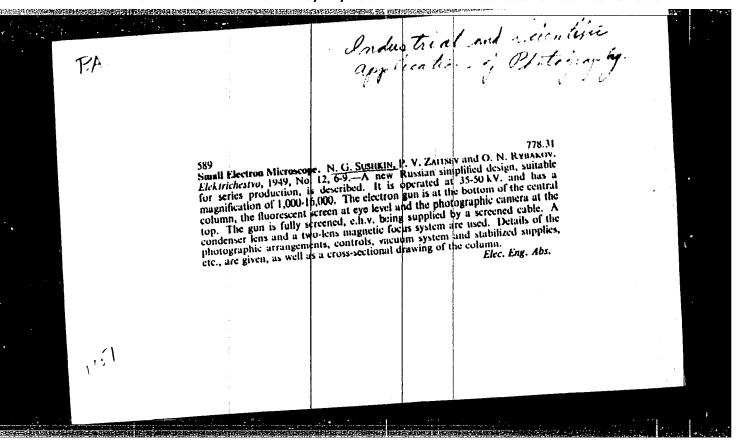
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"Selecting the Material : N. G. Sushkin, 62 pp.	for the Pole S	hoes of an El	ectron M	icroscope, Sh.	M. Rakhimov,	
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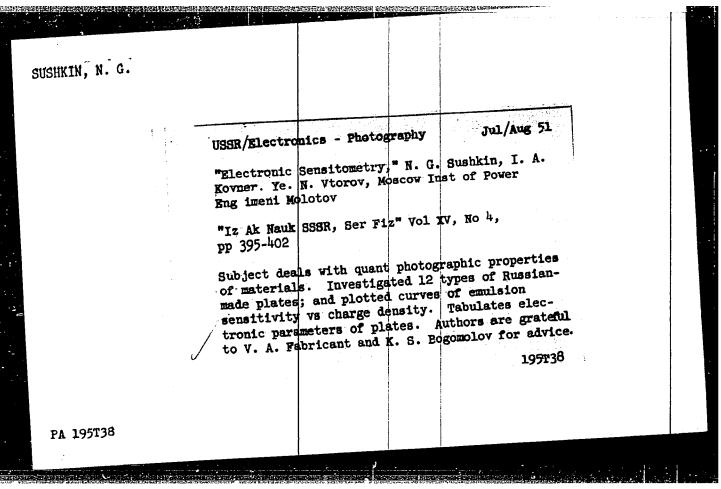
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52/49 <b>T</b> 99	ted one by one and wave properties are d to each particle. At present there can be any doubt as to the correctness of this ion; however, importance of experiments on tion of particles is so great that there point in carrying out a real experiment raction of single electrons. Describes experiment, using a modified electron ope, type EM-100. Includes two photosubmitted by Acad S. I. Vavilov,	Ak Nauk SSSR" Vol IXVI, No 2  iments on diffraction of electrons are ly carried out in powerful beams. Experience hown the diffraction picture is independent e intensity of the electron beam. On 'his an imaginary experiment is discussed in of quantum mechanics in which electrons are 52/49799  Physics (Contd.)	Iffraction lcroscopy lcroscopy saction of Flying Electrons," Sushkin, V. Fabrikant, Moscow lmeni V. M. Molotov, 2 pp	

SUSHKIN, N. G.			Dec 49	
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"Dok Ak Hauk SSSR" Vol LXIX, No 4				
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Sushkin, N. G.		B. Borries (Zs fuer Physik, 12 1942) and by M. Ardenne (Elekt Kroscopie, Berlin, 1940). Res	USSR/Electronics - Photography		Russian-made electron microscopes provide medium magnification and further optical magnification of photographic plates requires good resolving power. Methods applied for measurements of resolving power of photographic are those by	"Iz Ak Nauk SSSR, Ser Fiz" vol XV, No 4,	"Resolving Power of Photoemulsion for Bays," N. G. Sushkin, Ye. N. Vtorov, Inst of Power Eng imeni Molotov	USER/Electronics - Photography
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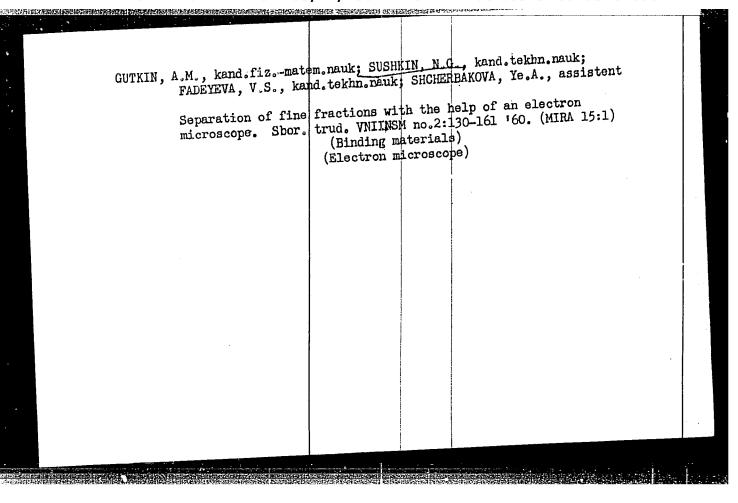
Sushkin, N.G. K-11 USSR/Optics - Photography : Referat Zhur - Fizika, No 5, 1957, 13247 Abs Jour : Sushkin, N.G., Forina, I.A. Author : Moscow Power Institute, USSR Inst : Optimum Conditions for the Development of Photographic Title Plates, Exposed by Medium Energy Electrons. : Zavod. laboratoriya, 1956, 22, No 8, 961-964 Orig Pub : An investigation was made of the kinetics of the development of electronographic plate E-III, exposed in an elec-Abstract tron microscope-sensitometer with electrons of energies 32, 60, and 80 kev, and developed in seven different developers. From the resultant families of density curves D at various commitions of development, and families of curves of the kinetics of the development for various values of electron energy and for various values of the charge Card 1/2

USSR/Optics - Photography K-11 Abs Jour : Ref Zhur - Fizika, No 5, 1957, 13247 density, it follows that the maximum of D at 32 kev is given by the "Final" brand developer. The NIKFI X-ray developer gives a somewhat lower value of D with considerably less fog. At energies of 60 and 80 kev, the X-ray developer is much superior, with respect to the resultant value of D, than all other developers. For developer brands "Final'" and "Atomal'" one observes an exceedingly slow increase in D with time of development for all values of electron energy. Special experiments have shown that this feature is due to the specific nature of the photographic action of the electron, and is not observed when light sensitograms are developed. The optimum development mode for the plate E-III in X-ray developer NIKFI is nine minutes at  $18 \pm 0.5^{\circ}$ . Card 2/2

VUL'FSON, K.S., prof.; GURRYIGH, M.M., prof.; MESHKOV, V.V., prof.; NILENDER, R.A., prof.; TUROV, S.G., kand. tekhn. nauk; SOKOLOV, M.V., prof.; BIBERMAN, L.M., kand. tekhn. nauk; BURATSVA, F.A., kand. tekhn. nauk; SUSHKIH, Naha. kand. tekhn. nauk; SUSHKIH, Naha. kand. tekhn. nauk; Valentin Aleksandrovich abrikant; on his 50th birthday. Svetotekhnika 3 no.12:24-25 D '57.

(Fabrikant, Valentin Aleksandrovich, 1907-)

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ACCESSION NR: AP4004154

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AUTHOR: Sushkin, N. G.

TITLE: Czochralski method of growing refractory metal single crys-

tals with electron beam heating

SOURCE: Teplofizika vy\*sokikh temperatur, v.1, no. 2, 1963, 313-315

TOPIC TAGS: single crystal, single crystal growth, Czochralski method, electron beam heating, refractory metal single crystal, metal single crystal growing, electron beam

ABSTRACT: Since ordinary crystal growing by zone purification with electronic heating is very labor consuming and the size of the single crystals is quite limited, the application of the Czochralski method of drawing single crystals from a melt of a refractory mamethod of great practical interest. If the Czochralski method is combined with electronic rather than arc heating (the pool of

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AUTHORS: Sushkin, N. G.;	Perezhogin, M.	I.			38	
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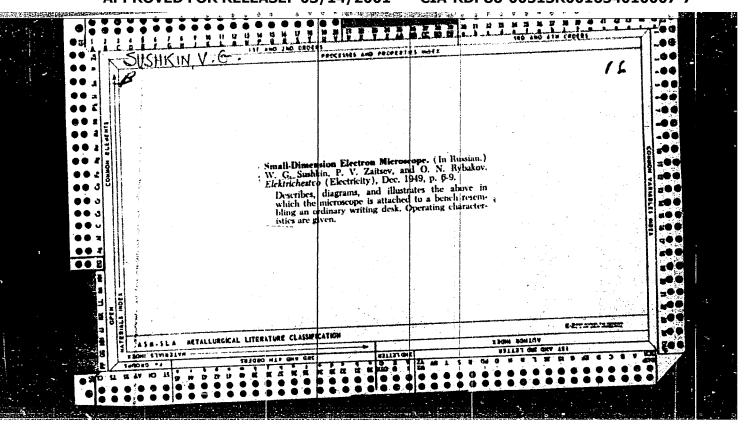
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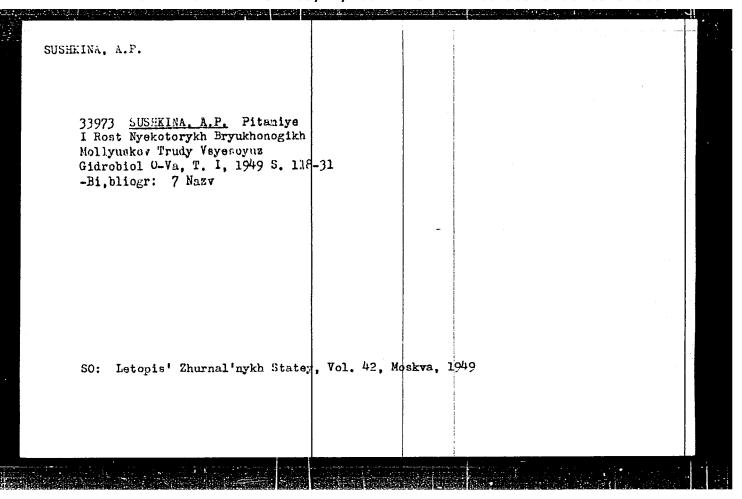
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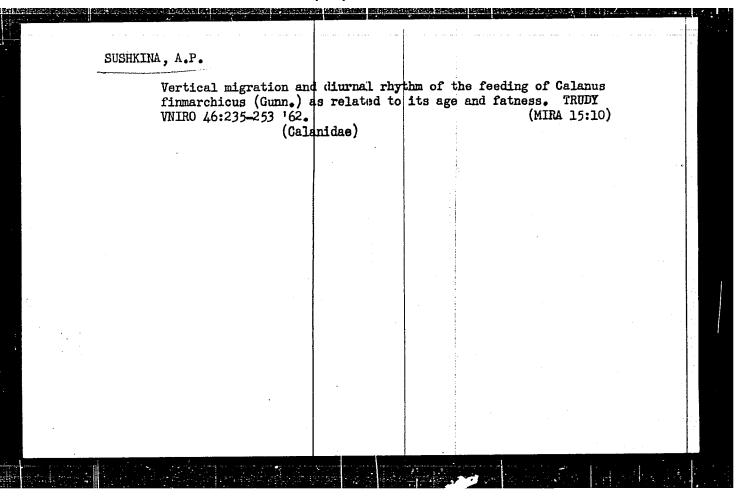
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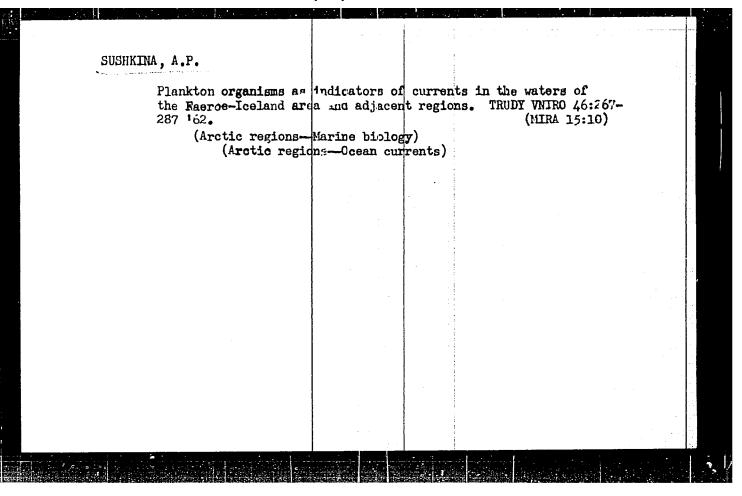


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8/123/61/000/011/004/034 25529 A004/A101 15.6000 AUTHORS: Al'shits, I. Ya.; Sushkina, L. N. New antifriction materials and coutings TITLE: PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 22, abstract 11A175 (V sb. "Povysmeniye iznosostoykosti i sroka sluzhby mashin. v. 2" Kiyev, AN UkrS\$R, 1960, 18-27) The authors present the results of investigating the properties of TEXT: antifriction materials: rubber, materials on the base of graphite, fluoroplastics, polyamides, pressed wood pulp, cord fibers, cotton fibers and AU (DTs) plastics. They determined the resistance to wear and coefficient of friction / of five rubber grades of 86-54 shore hardness during boundary lubrication by clean water and water with abrasives. The counterbody rollers were made of 2 13 (2Kh13) grade steel, sliding speed v = 0.4 m/sec, p = 15 kg/cm<sup>2</sup>, test duration = 24,000 revolutions. The wear magnitude of the counterbody was insignificant, while the rubber wear was 17-155 /. An addition of 10% abrasive to the water increased the counterbody wear by 100-300 times and reduced the rubber wear. The friction coefficient / of the rubber is lower when operating with an abrasive than with cle Card 1/3

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New antifriction materials and coatings

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clean water lubrication. The test with rubber bearings proved that at p = 70 kg/cm²,  $\mu$  = 0.002-0.008. A reduction in the water consumption to 0.125 liter · how/cm² at p = 20 kg/cm² and v = 3.45 m/sec does not affect the operation of the bearings. Rubber bearings can resist under hydrodynamic lubrication conditions a pressure of p = 100-200 kg/cm². Under boundary lubrication conditions rubber has inferior characteristics, both of wear and coefficient of friction, than plastics. The load capacity of the investigated rubber grades does not exceed 15kg/cm². The testing of graphite impregnated with bH (BN) babbit and lead during friction in a couple with rollers or shafts made of 45 grade steel of a hardness of 48-52 R showed the resistance to wear ( $\mu$ = 0.16-0.23) approximately twice as high as that of non-impregnated graphite. When graphite impregnated with metal is water-lubricated, its wear increases by a factor of 20,  $\mu$  = 0.06-0.09. Lubrication with oil results in  $\mu$ = 0.09-0.044. Of the plastics the most durable one concerning the effect of aggressive media is fluoroplastic 4 with an operating temperature of 250°, a water absorption of 0 and a hardness of 3-4 kg/mm². The best polyamide resins for bearings are the grades no. 54 and 68. Bearings from no. 54 resins lubricated with water or oil at a speed of 4 m/sec operated under a specific pressure of 300 kg/cm² and higher. Bearing bushes coated with a powdered Al and Fe mixture (Al- 50%, the rest being Fe) and Cu and

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New antifriction materials and coatings

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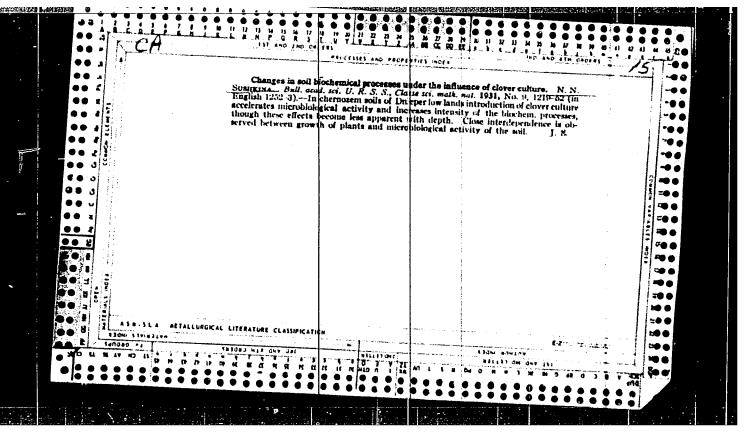
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Fe mixture (Cu - 40%, the rest being Fe) had a load capacity p = 70-100 kg/cm<sup>2</sup> and v = 1.1 m/sec. Bearing bushes coated with a mixture of phenol formaldehyde resin and 10% graphite operated satisfactorily on the average up to a load of resin and 10% graphite operated satisfactorily on the average up to a road of 120 kg/cm<sup>2</sup> when lubricated with water and v = 1.1 m/sec; when lubricated with oil the load increased to 150 kg/cm<sup>2</sup>. At v = 1.1 m/sec and lubrication with liquid oil the load capacity of bearing bushes from wood pulp amounts to 65-70 kg/cm<sup>2</sup>. When the speed is increased to v = 4 m/sec the load limit is reduced to 45-50 kg/cm<sup>2</sup>. The permissible load with water lubrication amounts to 70-100 kg/cm<sup>2</sup> at v = 1.1 m/sec. Cord fiber is a plastic with a filler from the wastes of car tire manufacture, i. e., the threads of cord Tabric additionally cleaned from rubber. Cotton fiber is made from emulsich resol resin and degreased cotton combinings. The utilization of mineral oil as lubricant deteriorates the operation of all plastics. The limit load for plastics at v = 1 m/sec in which the fabric is made on the base of wood cellulose does not exceed 40 kg/cm2, for cord fiber not more than 20 kg/cm<sup>2</sup>, and only textolite operates at loads of up to 100 kg/cm2. The load capacity of plastics decreases with increased speed if lubrication is effected with oil. Correspondingly also  $\mu$  increases considerably when working with oil lubrication (0.03-0.1) in comparison with water lubrication G. Mekhed (0.002-0.005). [Abstracter's note: Complete translation]

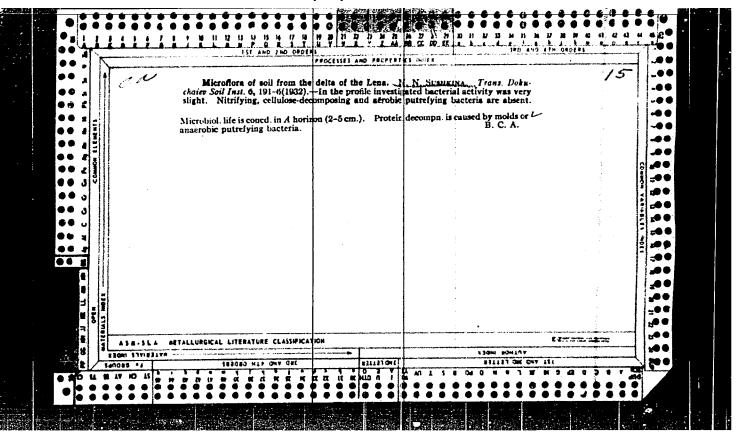
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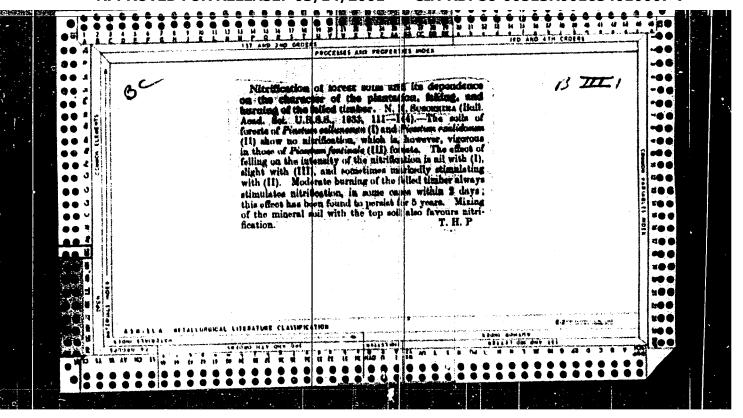
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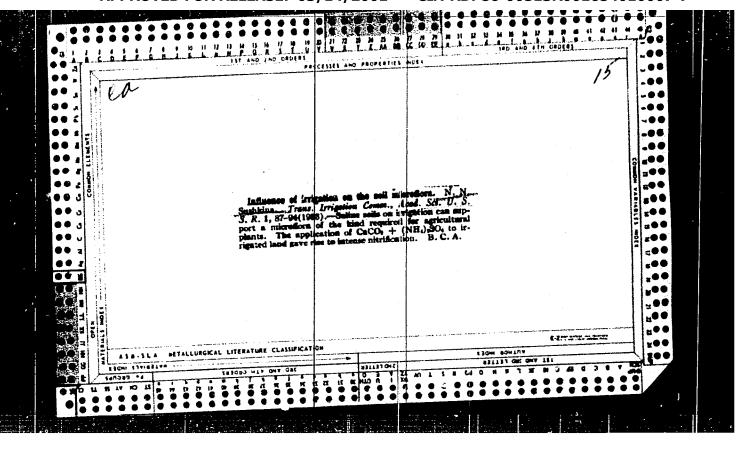
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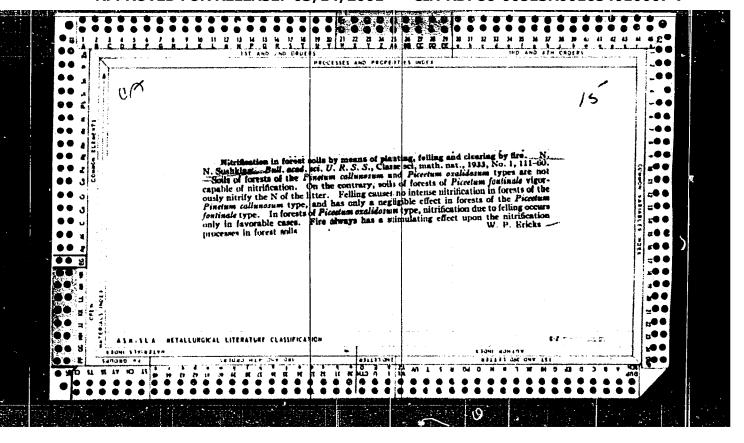


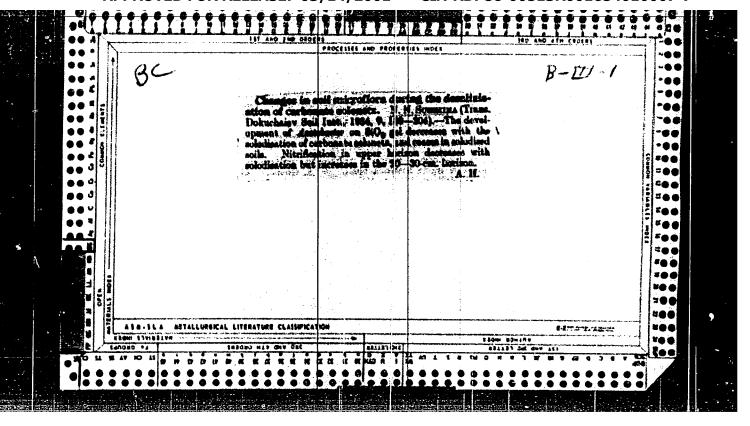
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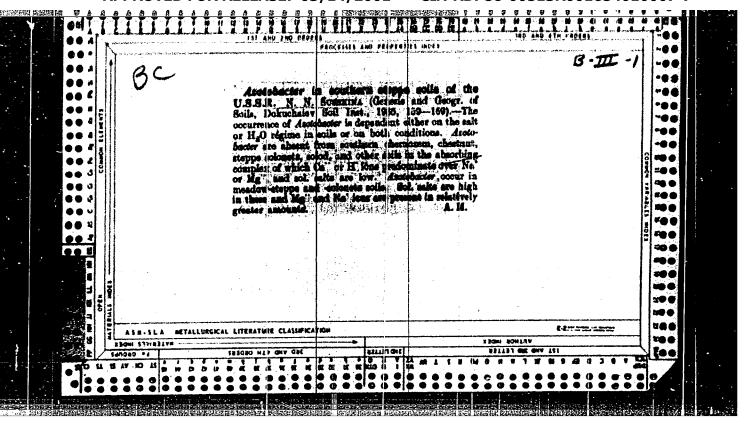












SSEKINA, N. N.

USER/Chemistry - "I minum Silicates by Means of Soil Bacteria," L. Ye. Novoros.ova, N. P. Remezov, N. N. Sushkina, Moscow State University imeni M. V. Lomonosov, 32 -
"Dok Ak Nauk" Vol LVIII, No 4

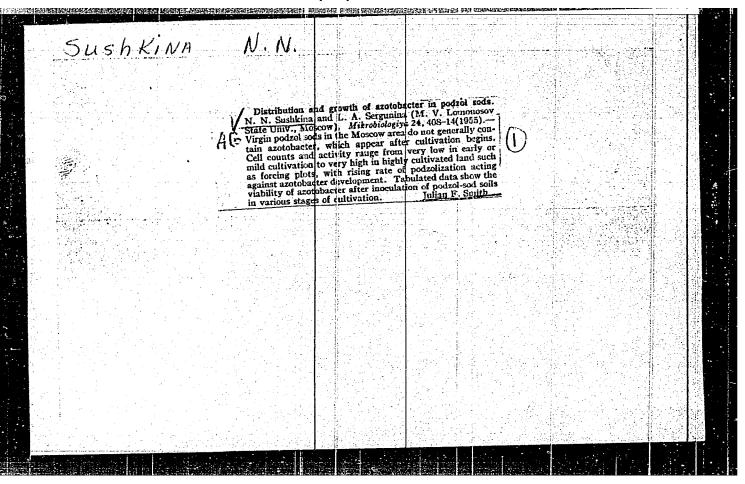
It had been assumed for a long time that soil bacteria were very active in the process of decomposing aluminum silicates as well as potasi, and dolomites, with the resultant formation of soil. Authors give very general description of experiments and results obtained in their course of studies confirming the fact that soil bacteria did actually break down aluminum silicates into soil. Submitted by Academician B. B. Folynov, 20 May 1947.

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Sushkina, N. N.: "Nitrogen fixation and the biological properties of nitrogen bacteria extracted from salified soils of the Lower Volga", Report No. 2, Vestnik Mosk. un-ta, 1948, No. 10, p. 95-209, - Bibliog: 16 items.	
SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).	
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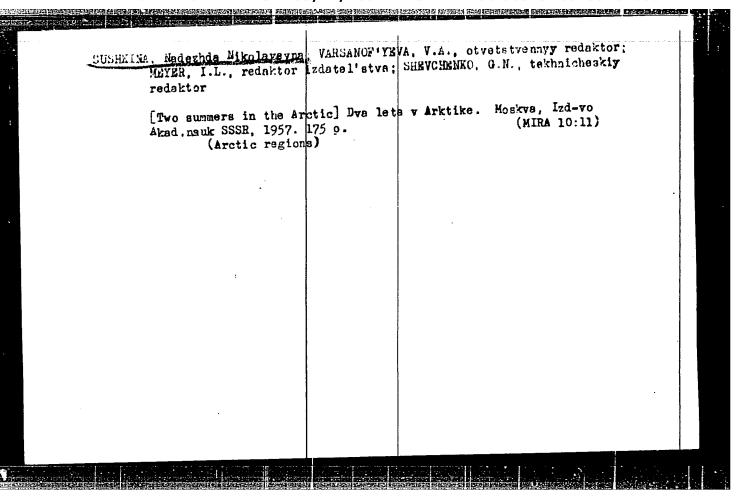
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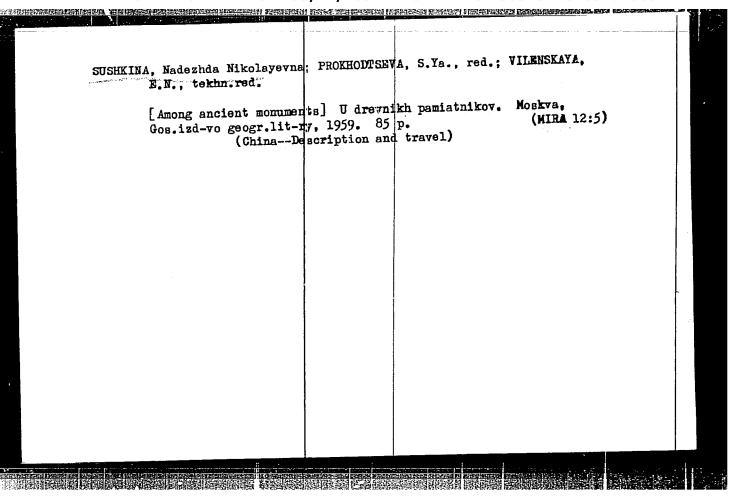


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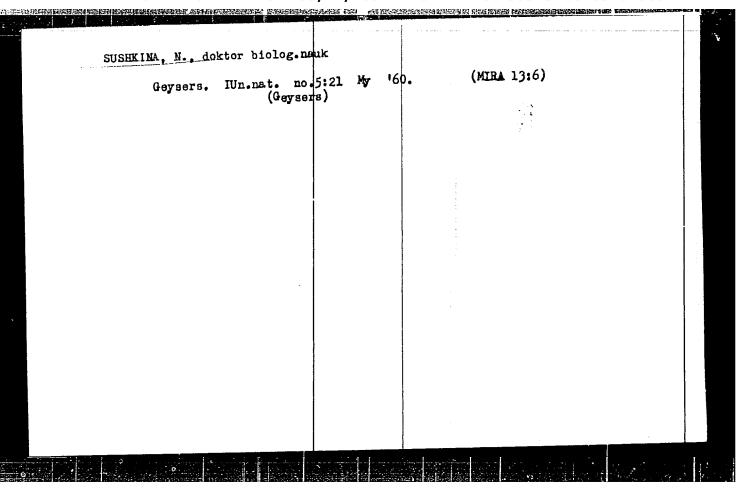
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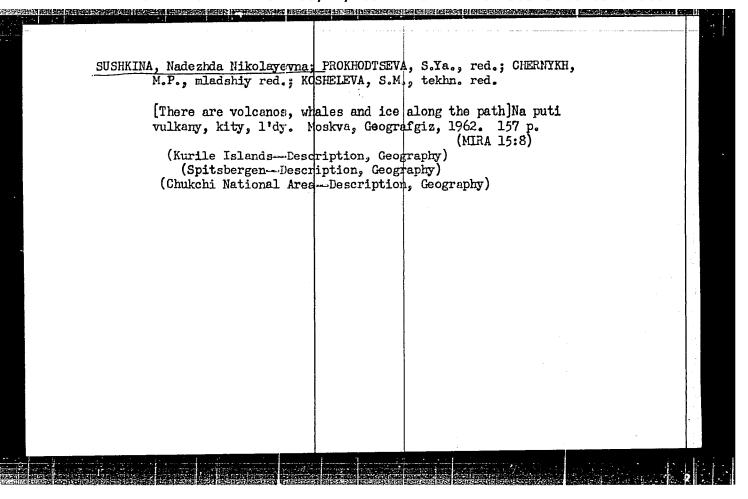
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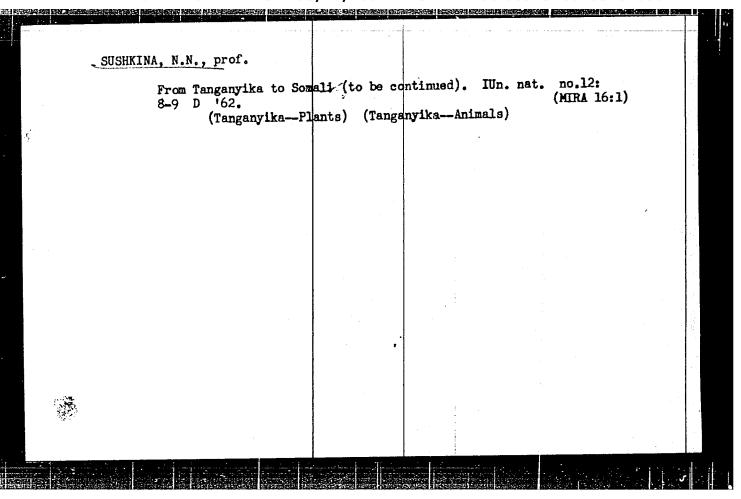
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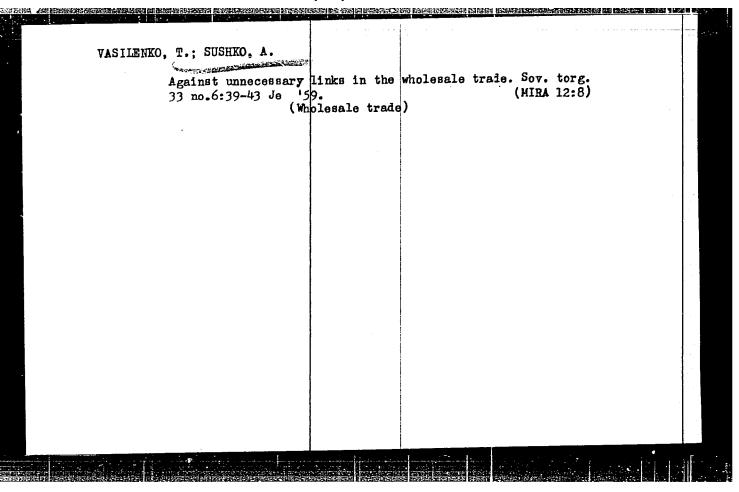
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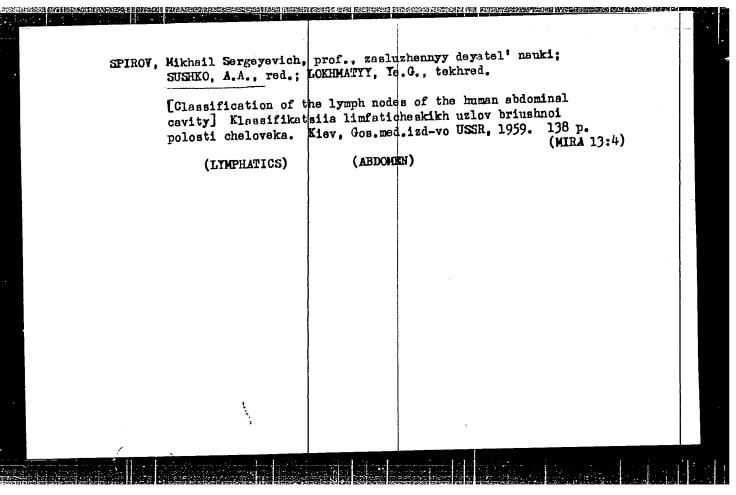
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